AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF THE CLAIMS

Claim 1 (canceled)

- 2. (currently amended) <u>A method for producing purified steam using a falling film</u> evaporation tube unit, the method comprising the steps of:
- a) introducing a feed stream of water to a falling film evaporation tube unit to produce a steam and a liquid;
- b) collecting the liquid below a lower end of the falling film evaporation tube unit to form a volume of liquid;
 - c) circulating the steam upward in a spiraling rotational path;
 - d) separating droplets from the steam to form a first reject stream;
- e) combining a portion of the volume of liquid with the feed stream to form a circulating liquid; and
- <u>f)</u> removing a second reject stream from the circulating liquid A method according to claim 1, wherein a second reject stream is withdrawn from the circulating liquid.
- 3. (currently amended) A method according to <u>claim 2 elaim 1 or 2</u>, wherein the droplets are separated by means of a temperature controlled surface.
- 4. (currently amended) A method according to <u>claim 2 any claim 1 or 2</u>, wherein dissolved gases are continuously removed from the circulating liquid.
- 5. (currently amended) A method according to <u>claim 2any of claims 1 or 2</u>, wherein [[the]]a mass flow of the circulating liquid is at least twice the maximum product steam output.

- 6. (currently amended) A device for the production of purified steam, the device comprising:
 - a falling film evaporation tube unit;[[and]]
 - a unit for separating steam and liquid,[[;]] the separating unit comprising:
 - a central downpipe for receiving the evaporation product,
 - an outer shell defining an inner cavity,
- an inner shell disposed in the inner cavity of the outer shell, the inner shell sealingly attaches to the outer shell along a lower edge and along an upper edge of the inner shell to define a space between the inner shell and the outer shell, the space fluidly communicating with a remaining portion of the inner cavity of the outer shell through an opening formed in an upper portion of the inner shell, and
- an inner shell and an outer shell, the inner shell locally providing for passage of steam to the outer shell,
 - a set of fins forming a spiral path surrounding the downpipe:[[,]]
- a first exit tube connected to the bottom of the space between the inner and the outer shell:[[,]]
- a second exit tube connected to the <u>remaining portion of the inner cavity of the outer</u> shell; space inside the inner shell, and
- recirculation tubing connecting the second exit tube to an inlet of the falling film evaporation unit.
- 7. (currently amended) A device <u>for producing purified steam</u>, the <u>device comprised of:</u>

 <u>a falling film evaporation tube unit;</u>
 - a separating unit for separating a steam and a liquid, the separating unit comprised of:
- a central downpipe for receiving an evaporation product from the falling film evaporation tube unit,

an inner shell,

an outer shell, wherein the inner shell provides for passage of a steam to the outer shell, and

a set of fins forming a spiral path surrounding the central downpipe;

<u>a first exit tube connected to a bottom of a space between the inner shell and the outer</u> <u>shell, the first exit tube for flowing a reject stream from the space;</u>

a second exit tube connected to a space inside the inner shell, the second exit tube fluidly connected to the liquid in the inner shell;

a recirculation tubing fluidly connecting the second exit tube to an inlet of the falling film evaporation tube unit; and

a tube fluidly connected to the recirculation tubing for removing a reject stream therefrom according to claim 6, comprising means to withdraw a reject stream from the recirculation tubing.

- 8. (currently amended) A device according to <u>claim 7 elaim 6 or 7</u>, comprising temperature control means fitted to the outer shell.
- 9. (currently amended) A device according to <u>claim 7 any claim 6 or 7</u>, comprising means for withdrawing a stream from the inlet end of the falling film evaporator.
- 10. (currently amended) A device according to <u>claim 7 any claim 6 or 7</u>, comprising a pump in the recirculation circuit having a mass flow capacity of at least twice the maximum product steam output of the device.